

AENOR

AENOR Product Certificate Clay products for construction



034/001404

AENOR certifies that the organization

CERANOR, S.A.

registered office	CL GENERAL ARRANDO, 9 B BAJO 28010 MADRID (España)
supplies	P Units for protected masonry
in compliance with	UNE-EN 771-1:2011+A1:2016 (EN 771-1:2011+A1:2015)
Nº Technical Form	1311403 (see annex)
Production site	PI EL TESORO, CR. DE MAYORGA, S/N 24200 VALENCIA DE DON JUAN (Leon - España)
Certification scheme	This Certificate has been granted in accordance with the stipulations of the Specific Rules RP 034.14
	This certificate supersedes 034/001404, dated 2018-01-12
First issued on	2009-11-26
Modified on	2021-04-05
Validity date	2026-04-05



Rafael GARCÍA MEIRO
Chief Executive Officer

Original Electronic Certificate

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Product certification body accredited by ENAC, number 1/C-PR271

P UNITS FOR PROTECTED MASONRY

TECHNICAL FORM: 1311403

MANUFACTURER - MADE IN: CERANOR, S.A - Valencia de Don Juan -LEÓN-

PRODUCT DESCRIPTION: LIGHTENED (G3) P UNIT CAT I R-10,0 of 300 x 240 x 190

DESIGNATION CODE: CL - P - I - 10 - 815(D2) - 300x240x190 - A - L0,330 - E(4,4,4) - N1770(D2) - G3 - FR55 - B0,15 - I≤4,5 - M≤0,5

BRAND NAME: TERMOBRICK DE 24

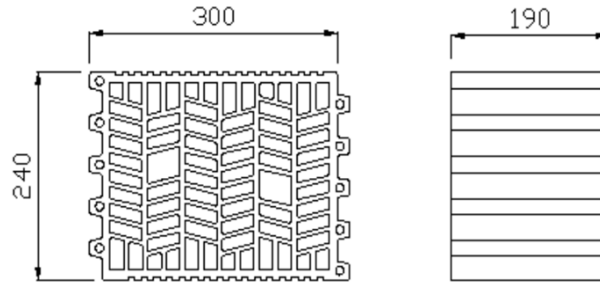
INTENDED USES: EXTERNAL/INTERNAL ELEMENTS WITH ACOUSTIC, THERMAL INSULATION AND FIRE REQUIREMENTS; STRUCTURAL MASONRY SUSTAINING; COMMON LAYER MORTAR

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Certified Product

PIECE SKETCH



TECHNICAL CHARACTERISTICS

Characteristic		Test method	Manufacturer ensured values	AENOR required values	
Appearance and structure	exfoliations and stratifications	Visual over 6 pieces	None		
	cracked units		≤ 2 unit of 6	≤ 2 unit of 6	
	chip units	UNE 67039 EX	≤ 1 unit of 6	≤ 1 unit of 6	
Chips in perforated faces with mean dimension < 15 mm					
Dimensional tolerances (mm)	Mean value	EN 772-16	T1	± 7	± 7
				± 6	± 6
			Range	R1	± 6
	± 10				± 10
	± 9			± 9	
	Wall thickness (mm)		protected face shells	≥ 6,0	≥ 6,0
webs		≥ 3,0	≥ 3,0		
Plane parallelism of bed faces (mm)		N/A			
Flatness of bed faces (mm)	Diagonals	EN 772-20	l > 300 mm	≤ 4,0	
			300 ≥ l ≥ 250 mm	≤ 4,0	
			l ≤ 250 mm	≤ 4,0	
Percentage of voids (%)		EN 772-3	55	> 25; ≤ 60	
Tolerance (%)		Min: 52 - Máx: 58			
Volume of the largest void (% of (l x w x h))		EN 772-3/9/16	≤ 4,0	≤ 12,5	
Combined thickness of webs and shells (%)		EN 772-16	≥ 20	≥ 20	
Initial rate of water absorption (Kg/(m ² x min))		EN 772-11	≤ 4,5	≤ 4,5	
Characteristic normalized compressive strength (N/mm ²)		EN 772-1	≥ 10,0	≥ 10,0	
		Orientation loading: Bed			
Density	Net dry (Kg/m ³)	EN 772-13	1.770		
	Gross dry (Kg/m ³)		815		
	Tolerance (%)		D2	D2 (± 5%)	
Weight (g)		Annex D RP 34.14	Minimum value ensured: 10.550		
Durability (Freeze/thaw)		UNE 67028 EX	F0		
Thermal properties (Method)		EN 1745 (UNE 136021)	Finite Element Method according to UNE 136021		
λ _{piece} (W/m x k)			According to Technical Report		
R _{wall} (m ² x k/w)			According to Technical Report		
Water vapour permeability - μ		EN 1745	5/10		
Content of active soluble salts		EN 772-5	S0		
Moisture movement (mm/m)		UNE 67036	0,5		
Fire reaction performance		% organic materials ≤ 1 %	EN 13501-1	A1	
Bond strength (N/mm ²)		Annex C EN 998-2	0,15		
Accessory units		YES			

Remarks:

Combined thickness declared corresponding at heat flow direction in the masonry

SPECIAL PIECES: Corners, Middle, Zunchos, Fitting Parts and Finishes.

"Thermal values of the uncoated wall and without considering surface resistance"

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